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ABSTRACT

Techniques to control the transmit power of multiple transmissions in a wireless communication system. A transmitting source (e.g., a base station) receives from a receiving device (e.g., a remote terminal) a number of feedbacks of one or more (coded or uncoded) bit streams and possibly one or more messages. The bit stream may include one or more power control sub-channels used to send one or more metrics (e.g., power control commands, erasure indicator bits, or quality indicator bits) for one or more sets of channels. The bits allocated for each sub-channel may be aggregated to form one or more lower rate feedback sub-streams having improved reliability. The transmit power of two or more channels can be (1) independently adjusted based on feedbacks from respective sub-channels, or (2) adjusted together based on feedback received another sub-channel.